



ADVISORY CIRCULAR 43–16A

AVIATION MAINTENANCE ALERTS





MARCH 2003

ALERT NUMBER 296

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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WASHINGTON, DC 20590

AVIATION MAINTENANCE ALERTS

The Aviation Maintenance Alerts provide a common communication channel through which the aviation community can economically interchange service experience and thereby cooperate in the improvement of aeronautical product durability, reliability, and safety. This publication is prepared from information submitted by those who operate and maintain civil aeronautical products. The contents include items that have been reported as significant, but which have not been evaluated fully by the time the material went to press. As additional facts such as cause and corrective action are identified, the data will be published in subsequent issues of the Alerts. This procedure gives Alerts' readers prompt notice of conditions reported via Malfunction or Defect Reports. Your comments and suggestions for improvement are always welcome. Send to: FAA; ATTN: Aviation Data Systems Branch (AFS-620); P.O. Box 25082; Oklahoma City, OK 73125-5029.

AIRPLANES

BEECH

Beech; All Model 1900 Series; Airliner; Elevator Torque Tube Assembly; ATA 2730

An FAA inspector from the Ft. Lauderdale, Florida, Flight Standards District Office (FSDO) reported the elevator torque tube assembly (P/Ns 101-610019-5 left and 101-610019-6 right) on the Beech 1900 aircraft failed.

Two operators found movement in the area of the torque tube to the tube adapter and in the horn assembly (P/N 101-610019-7). (Refer to the illustration.)

The submitter recommend that all operators of Beech 1900 aircraft conduct routine inspections for movement in the area of the torque tube to the tube adapter and the horn assembly.

The FAA Service Difficulty
Reporting Program data base
revealed 17 similar reports for the
period of January 1, 1995, to
January 28, 2003. According to the
reported information, movement in
the area of the torque tube to the
tube adapter and the horn assembly
are cause by loose rivets.

TORQUE TUBE

ADAPTER

HORN ASSY

Part total time-not reported.

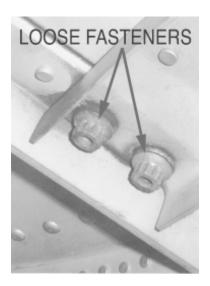
Beech; All Model 1900 Series; Airliner; Vertical Stabilizer; ATA 5530

The technician was inspecting the tail section and discovered there was a problem with the vertical stabilizer.

The upper four attach bolts (P/N EWB 22-5-14) for the vertical stabilizer forward spar were loose. All four bolts were below minimum torque specification. (Refer to the illustration.)

The FAA Service Difficulty Reporting Program data base revealed 10 similar reports of loose vertical stabilizer forward spar attach bolts.

Part total time-20.267 hours.



BOEING

Boeing; Model 737 Series; Hamilton Sundstrand; Auxiliary Power System (APU); ATA 4930

The San Diego Flight Standards District Office (AWP-09) processed two Malfunction or Defect Reports which cited failure of the Hamilton Sundstrand APU (P/N APS 2000) used on Boeing 737 series aircraft.

The submitter stated the APU went into auto shutdown with a large amount of fuel coming out of the APU area. Further investigation revealed that one of the 14 fuel tubes on the main fuel manifold (P/N 4950084) had broken between the flexible fire sleeve and the fuel injector B-nut.

Part total time unknown.

CESSNA

CESSNA SINGLE-ENGINE THROTTLE CONTROLS

This article was provided by the FAA Aircraft Certification Office (ACO) Airframe, Propulsion and Services (ACE-118W) located in Wichita, Kansas.

The FAA has received a report, from an international authority, of a single-engine Cessna airplane that had the throttle control separate from the rod end that is attached to the carburetor. This airplane, like many others, but not all single-engine airplanes manufactured by Cessna, was equipped with a mechanism that enables the engine to automatically revert to full power when the throttle becomes disconnected from the fuel metering unit.

The FAA previously issued Airworthiness Directive (AD) 86-24-07 on the single-engine controls installation applicable to Cessna airplanes as well as Advisory Circular (AC) 20-143, Installation, Inspection, and Maintenance of Controls for General Aviation Reciprocating Aircraft Engines. The FAA also previously revised Title 14 of the Code of Federal Regulations (14 CFR) part 23, sections 23.1143(g) and 23.1147(b) to address the need for continued safe flight and landing in the event of a control separation at the engine fuel-metering device. These current rules are not applicable to older in service airplanes.

The manufacturer's service information, the FAA's ACs, and ADs are the methods used to alert field maintenance personnel of the importance of providing adequate maintenance on in-service aircraft. The FAA continues to evaluate the reliability of engine-control installations applicable to small airplanes. The number of adverse reports applicable to these problems have reduced since the issuance of enhanced maintenance instructions, ACs, and ADs applicable to the controls installed on reciprocating-engine airplanes.

Continued vigilance on the part of those individuals involved in inspection and maintenance must be maintained in order to keep the number of adverse reports associated with these components to a minimum. It should be noted that while some of the engines will revert to full power/mixture to enable continued safe flight and landing, many of the airplanes previously and currently produced primarily rely on proper maintenance of engine controls to ensure an adequate level of safety.

Cessna; Models 177RG, F177RG, 210, P210; Landing Gear Hydraulic Hose Failure; ATA 3230

This article was provided by the FAA Aircraft Certification Office (ACO) Airframe, Propulsion and Services (ACE-118W) located in Wichita, Kansas.

Failing Parts: S2178-4 series hydraulic hoses used in the landing gear system.

Service Difficulty Reports (SDRs) are being received of landing gear hydraulic hose (P/N S2178-4 series) failures. In several cases, the failure resulted in a loss of hydraulic fluid, inability to extend the landing gear, and a gear-up landing.

An example of this is NTSB Report DEN01LA119 describing a Model 177RG. On July 1, 2001, the aircraft landed nose gear down/main gear up due to a nose gear actuator hose failure. After the accident the failed hose was identified as an S2178-4 series hose.

Cessna provided a Service Bulletin SEB 92-8 dated April 17, 1992, which mandated replacement of S2178-4 series hydraulic hoses with S2888 series hoses for certain Cessna Models 177RG, F177RG, 210, and P210.

Since an operator is not required to incorporate an SEB to maintain an airworthiness certificate, it appears that some operators (like the 177RG example) are not implementing SEB 92-8. To avoid in-flight loss of hydraulics due to S2178-4 hose failures, all owners, operators, and maintenance personal should verify Cessna SEB 92-8 has been incorporated on aircraft they fly and maintain. If the SEB has not been completed, it is recommended that it be complied with immediately.

Cessna; All Model 400 Series; Wing Spar Attach Fittings Corrosion; ATA 5740

This article was provided by the FAA Aircraft Certification Office (ACO) Airframe, Propulsion and Services (ACE-118W) located in Wichita, Kansas.

While conducting an annual inspection on a Cessna Model 414A, the technician discovered severe corrosion on both wings upper aft spar attachment fittings. This is the second aircraft in a few months that displayed corrosion on both wings upper aft spar attachment fittings.

Cessna has revised all Model 400 Series Supplemental Inspection Documents (SIDs) contained in the aircraft maintenance manual. The SIDs require a visual inspection to detect corrosion on the forward and aft wing upper attachment fittings. If cracks or corrosion are detected, the SIDs require the replacement of the wing attach fitting.

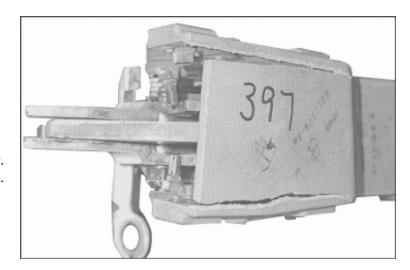
The FAA recommends that all owners and operators of the affected models comply with the revised SIDs and visually inspect the forward and aft upper attachment.

Cessna; Model 650; Citation III; Landing Gear System; ATA 3230

During landing gear retraction, the pilot heard a loud "bang," and the gear unlock annunciator remained on. He placed the landing gear handle in the "down" position, confirmed three green gear-safe annunciators were on, and made a safe landing.

The technician discovered a broken ground wire at pin F of the main landing gear uplock microswitch (P/N H11-1307-1) connector. The broken wire caused the left main gear uplock to close and lock before the landing gear was fully retracted. This action resulted in the uplock housing assembly and uplock mechanism to be smashed by the retracting landing gear. He suspects the wire broke due to age. (Refer to the illustration.)

The submitter recommends that all operators of Cessna 650 Citation aircraft inspect the main and nose landing gear uplock microswitch connectors.



Part total time-7,556 hours.

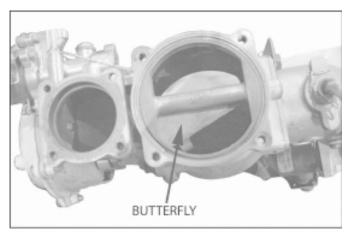
LEARJET

Learjet; Model 35A; Pneumatic Distribution System; ATA 3610

A recently processed Malfunction or Defect Report cited failure of the bleed air shutoff and pressure regulator control valve (P/N 3214478-2).

The submitter stated that the low-pressure butterfly portion of the control valve came apart. An investigation revealed that the hinge pin apparently failed. (Refer to the illustration.)

Part total time unknown.



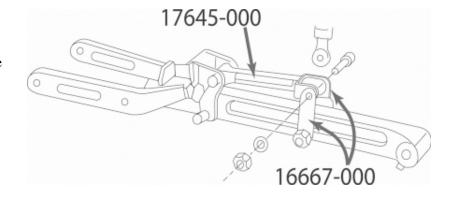
PIPER

Piper; Model PA 23-160; Apache; Nose Landing Gear System; ATA 3230

During landing gear retraction, the pilot heard a "bang." There was no nose gear indication on gear extension. Upon landing, the nose landing gear down-and-locked green light appeared, and he made a safe landing. (Refer to the illustration.)

An investigation revealed the hydraulic actuator connector links (P/N 16667-000) broke in half which also ripped open the bolt holes for the nose landing gear locking link (P/N 17645-000).

Part total time-4,299 hours.



Piper; Model PA 31-350; Chieftain; Landing Gear System; ATA 3230

The pilot reported the gear would not extend. He made a gear-up landing, and the passengers and pilot exited the aircraft.

After landing the aircraft, the pilot made many attempts to troubleshoot the system; however, the gear failed to extend.

An investigation determined that the end of the gear selector cable (P/N 55416-02) pin had been installed improperly, which allowed it to separate from the hydraulic powerpack actuator arm.

According to the submitter, the cable end is located on the powerpack in an extremely close quarter, which makes it difficult for pin installation.

RAYTHEON

Raytheon; Model HS 125-700; Hawker Siddeley; Fuel Boost Pump Conduit; ATA 2822

A Malfunction or Defect Report (M or D) was received citing corrosion as the causal factor for pinholes in the fuel boost pump wiring conduit (P/N 25PF295-139A).

According to the submitter, the pinholes allowed fuel to leak directly into the fuel boost pump wiring. Further investigation revealed the conduit was painted on the outside, but the corrosion started from the inside.

The submitter suggests immediate inspection of all conduits on similar make and model aircraft.

Part total time unknown.

POWERPLANTS AND PROPELLERS

MCCAULEY

McCauley; Propeller Spinner Failure; ATA 6113

The FAA Atlanta Aircraft Certification Office (ACE-115A) submitted the following article.

Recently, a Cessna 210 experienced the loss of the propeller spinner. This particular airplane had a Teledyne Continental Motors Model IO-550-L engine that was installed via an STC. The propeller and spinner assemblies were manufactured by McCauley and were part of the original installation. Fortunately, the airplane was able to divert to an alternate airport. There were no injuries, no damage to the aircraft, and only minor damage to the propeller.

An incident investigation revealed that the backing plate cracked and allowed the spinner to separate and depart the airplane.

Numerous avenues of investigation were pursued in an effort to find the cause of the mishap. The FAA Service Difficulty Reporting Program data base was accessed, the holder of the STC provided data, an Airworthiness Concern Sheet was published, the responses were studied, and Cessna provided data. The result of all the investigations revealed there are no other known or recent problems of this type. There was mention of what appears to be a similar problem, but that was decades ago.

It is believed that this was a maintenance error as opposed to a design or production problem. Further, although the incident occurred on a Cessna with a McCauley propeller, it could happen on any airplane with any propeller.

Maintenance personnel are reminded to pay careful attention to the installation instructions when the propeller and especially the backing plate, spinner, and bulkheads are installed. Inspections should be conducted at the times specified by the manufacturer of the product and/or the airframe manufacturer or, at a minimum, during the annual inspection.

AIRNOTES

ELECTRONIC VERSION OF MALFUNCTION OR DEFECT REPORT

One of the recent improvements to the AFS-600 Internet web site is the inclusion of FAA Form 8010-4, Malfunction or Defect Report. This web site is still under construction and further changes will be made; however, the site is now active, usable, and contains a great deal of information.

Various electronic versions of this form have been used in the past; however, this new electronic version is more user friendly and replaces all other versions. You can complete the form online and submit the information electronically. The form is used for all aircraft except certificated air carriers who are provided a different electronic form. The Internet address is:

http://av-info.faa.gov/isdr/

When the page opens, select "M or D Submission Form" and, when complete, use the "Add Service Difficulty Report" button at the top left to send the form. Many of you have inquired about this service. It is now available, and we encourage everyone to use this format when submitting aviation, service-related information.

SERVICE DIFFICULTY REPORTING PROGRAM

The objective of the Service Difficulty Reporting (SDR) Program is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products fleet wide. The SDR program is an exchange of information and a method of communication between the FAA and the aviation community concerning inservice problems.

A report is filed whenever a system, component, or part of an aircraft, powerplant, propeller, or appliance fails to function in a normal or usual manner. In addition, if a system, component, or part of an aircraft, powerplant, propeller, or appliance has a flaw or imperfection which impairs, or which may impair its future function, it is considered defective and should be reported under the program.

These reports are known by a variety of names: Service Difficulty Reports (SDR), Malfunction or Defect Reports (M or D) and Maintenance Difficulty Reports (MDR).

The collection, collation, analysis of data, and the rapid dissemination of mechanical discrepancies, alerts, and trend information to the appropriate segments of the FAA and the aviation community provides an effective and economical method of ensuring future aviation safety.

The FAA analyzes SDR data for safety implications and reviews the data to identify possible trends that may not be apparent regionally or to individual operators. As a result of this review, the FAA may disseminate safety information to a particular section of the aviation community. The FAA also may adopt new regulations or issue airworthiness directives (AD's) to address a specific problem.

The primary source of SDR's are certificate holders operating under Parts 121, 125, 135, 145 of the Federal Aviation Regulations, and the general aviation community which voluntarily submit records. FAA Aviation Safety Inspectors may also report service difficulty information when they conduct routine aircraft and maintenance surveillance as well as accident and incident investigations.

The SDR data base contains records dating back to 1974. Reports may be submitted on the Internet through an active data entry form or on hard copy. The electronic data entry form is in the AFS-600 Aviation Information web site under the heading SDR Main Menu. The URL is: http://av-info.faa.gov

A public search/query tool is also available on this same web site. This tool has provisions for printing reports or downloading data.

At the current time we are receiving approximately 45,000 records per year.

Point of contact is:

John Jackson Service Difficulty Program Manager Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125

Telephone: (405) 954-6486

9-AMC-SDR-ProgMgr@mmacmail.jccbi.gov

IF YOU WANT TO CONTACT US

We welcome your comments, suggestions, and questions. You may use any of the following means of communication to submit reports concerning aviation-related occurrences.

Editor: Isaac Williams (405) 954-6488 **FAX:** (405) 954-4570 or (405) 954-4655

Mailing address: FAA, ATTN: AFS-620 ALERTS, P.O. Box 25082,

Oklahoma City, OK 73125-5029

You can access current and back issues of this publication from the internet at: http://afs600.faa.gov

When the page opens, select "AFS-640" and then "Alerts" from the drop-down menu. The monthly issues of the Alerts are available back to July 1996, with the most recent edition appearing first.

AVIATION SERVICE DIFFICULTY REPORTS

The following are abbreviated reports submitted between January 24, 2003, and February 20, 2003, which have been entered into the FAA Service Difficulty Reporting (SDR) System data base. This is not an all inclusive listing of Service Difficulty Reports. For more information, contact the FAA, Regulatory Support Division, Aviation Data Systems Branch, AFS-620, located in Oklahoma City, Oklahoma. The mailing address is:

FAA

Aviation Data Systems Branch, AFS-620 PO Box 25082 Oklahoma City, OK 73125

These reports contain raw data that has not been edited. If you require further detail please contact AFS-620 at the address above.

FEDERAL AVIATION ADMINISTRATION Service Difficulty Report Data

Sorted by Aircraft Make and Model then Engine Make and Model. This Report Derives from Unverified Information Submitted By the Aviation Community without FAA review for Accuracy.

ACFTMAKE ENG MAKE COMPMAKE PART NAME PART CONDITION DIFF-DATE TTIME ACFTMODEL ENG MODEL COMPMODEL PART NUMBER PART LOCATION OPER CTRL NO. TSO REMARKS

 PROPELLER
 MISREPAIRED
 11/13/2002

 M76AM
 LEADING EDGE
 2003013100001

(CAN) PROPELLER WITH NO HISTORY SENT IN FOR OVERHAUL. - DURING LIQUID PENETRANT INSPECTION, FOUND SUSPICIOUS WELDING WITH EDDY CURRENT CONDUCTIVITY PROBE AS WELDED AREA MATCHED GOOD AREA. KELLERS ETCH SHOWED DISCOLORATION AND CHROMIC ACID ANODIZING CONFIRMED WELDING HAD TAKEN PLACE. AS MOST PROP SHOPS DO NOT HAVE ANODIZE FACILITIES, THIS IS A TOUGH IMPROPER REPAIR TO LOCATE.

BEARING DENTED 12/10/2002 A5270 PROP ASSY 2003020100038

(CAN) AFTER DISASSEMBLY OF THE PROPELLER IT WAS NOTED THAT ALL THREE BLADE THRUST BEARINGS WERE BADLY DENTED, BEYOND REUSE. THE BEARINGS, LUBRICANTS, AND BALLS WERE ALL REPLACED AND THE PROPELLER WAS ASSEMBLED.

NUT CRACKED 01/12/2003

PROPELLER 2003020500066 850

DURING ROUTINE OVERHAUL OF THIS PROPELLER FOUND NR 2 THREAD IN THE NR 2 HUB SOCKET CRACKED. VISUAL/MAGNIFYING GLASS AND CONFIRMED WITH EDDIE CURRENT AND DYE-CHECK NDT. FOUND THE ASSOCIATED BLADE RETENTION NUT CRACKED ON THE NR 2 THREAD AS WELL VIA THE SAME MEANS OF INSPECTION. THESE WERE JUST THE BEGINNING OF A MINUTE CRACK AND HAD NOT PROGRESSED TO THE POINT OF THE PROPELLER LEAKING RED DYE OIL YET. COULD HAVE CAUSED A COMPLETE BLADE FAILURE OF THE BLADE LEAVING THE HUB. PHOTO ON FILE.

CONT SLICK DISTRIBUTOR DAMAGED 01/22/2003 501

IO520BB MAGNETO 2003021900030

MAGNETO REMOVED FROM ENGINE FOR 500 HOUR INSPECTION IAW THE MM. DURING INSPECTION FOUND THAT THE CARBON BRUSH WAS RUBBING AND CAUSING CARBON DUST. HAVE MFG LOOK AT REDUCING THE TOLERANCES BETWEEN THE DISTRIBUTOR BLOCK AND THE GEAR POST WHERE THEY FIT TOGETHER TO HELP PREVENT GEAR FROM ROCKING BACK AND FORTH.

 CONT
 GEAR
 WRONG PART
 09/27/2002

 W6706A
 3979
 CAMSHAFT
 2003021500006

ENGINE STOPPED RUNNING DUE TO A FAILED INTERMEDIATE CAM DRIVE GEAR. UPON DISASSEMBLY IT WAS FOUND THAT A PN 3979 GEAR FROM A TANK ENGINE HAD BEEN SUBSTITUTED FOR THE PN A3062. AIRCRAFT ENGINE GEAR WHICH SHOULD HAVE BEEN USED. TANK IGNITION DRIVE GEARS HAD BEEN USED AS WELL IN PLACE OF THEIR AIRCRAFT COUNTERPARTS, THE TEETH HAD SHEARED FROM THE INTERMEDIATE CAM DRIVE GEAR CAUSING THE CAM TO STOP TURNING AND ENGINE QUIT RUNNING.

GARRTT GARRTT DRIVE SHAFT STRIPPED 01/24/2003
TFE73122B FUEL PUMP 2003020500062

LT ENGINE FLAME OUT CLIMBING THROUGH 7,500 FT MSL AT 250 KTS. NO ABNORMAL INDICATIONS PRIOR. UNABLE TO RE-LIGHT. UPON REMOVAL OF FUEL PUMP FROM ENGINE, FOUND SHAFT SPLINES SEPARATED FROM MAIN PUMP SHAFT. REPLACED PUMP WITH OVERHAULED UNIT.

GE BOLT MISSING 02/01/2003 CF6* R584P205 BEARING 2003021900031

AIRCRAFT OPERATOR REPORTED A TOTAL LOSS OF OIL PRESSURE AND QUANTITY 20 MINUTES AFTER TAKE OFF FROM LAX. THIS RESULTED IN A 1FSD AND AN ATB. INVESTIGATION AT THE ENGINE REPAIR STATION REVEALED THAT ONE OF THE TWELVE RETAINING BOLTS FOR THE NR 7 BEARING WAS MISSING. THE BOLT WAS FOUND IN THE BEARING SCAVENGE LINE. THE BOLT HAD BLOCKED THE PIPE AND CAUSED THE ENGINE TO PUMP ALL OF THE OIL OVERBOARD.

O320H2AD LW15916 ENGINE 2003021400028

(CAN) CORROSION FOUND UNDERNEATH URETHABOND COATING APPLIED IN ACCORDANCE WITH SB 505B, SB 530A AND AD 998-02-08. URETHABOND COATING IS APPLIED TO PREVENT CORROSION, BUT AS IN MOST CASES, IT DID NOT.

 AIRTRC
 PWA
 PUMP
 LEAKING
 12/06/2002

 AT802
 PT6A67
 AN4101
 ENG DRIVEN FUEL
 2003020100020

(CAN) A FUEL LEAK WAS DETECTED DURING ANNUAL INSPECTION IN THE PLENUM CHAMBER AREA. IT WAS TRACED TO THE ENGINE DRIVEN FUEL PUMP.

 AMD
 GE
 TRANSMITTER
 FALSE INDICATION
 12/27/2002

 FALCON20
 CF7002D2
 11346AA
 RT ENGINE OIL
 2003020400131

(CAN) DURING TAKE-OFF ROLE THE PILOT IN COMMAND NOTICED OIL PRESSURE FLUCTUATION OF THE RT ENGINE. THE PILOT IN COMMAND INITIATED REJECTED TAKE-OFF. AT THIS TIME, THE FLIGHT CREW ADVISED ATC AND RETURNED TO THE MAINTENANCE FACILITY. OUR CONTRACTED AMO HAS DETERMINED THAT THE OIL PRESSURE TRANSMITTER IDENTIFIED AS AT FAULT, THEREFORE GIVING A FALSE OIL PRESSURE INDICATION TO THE FLIGHT CREW. THE OIL PRES SURE TRANSMITTER WAS REPLACED WITH A SERVICEABLE UNIT. THE AIRCRAFT WAS GROUND RUN SATISFACTORILY AND WAS RETURNED INTO SERVICE TO RESUME OPERATIONS.

AMD GARRTT LINE CRACKED 12/09/2002 1237 FALCON900 TFE7315BR 30723742 2 ENGINE 2003020500203

DURING CRUISE FLIGHT, NR 2 OIL LIGHT ON MASTER WARNING PANEL CAME ON. POWER LEVER WAS REDUCED TO IDLE, OIL PRESSURE INDICATION CONTINUED TO FALL TO LESS THAN 25 PSI, THIS TOOK APPROXIMATELY 15-20 SECONDS. CHECKLIST WAS CALLED, NR 2 ENGINE WAS SHUT DOWN. CREW DIVERTED FOR LONGER RUNWAY AND MAINTENANCE SERVICES. NO OTHER ANOMALIES WERE ENCOUNTERED AND EMERGENCY WAS NOT DECLARED. UNEVENTFUL LANDING WAS MADE. AIRCRAFT WAS TAXIED TO MAINTENANCE BASE. OIL WAS FOUND DRIPPING OUT OF NR 2 ENGINE COWLING. FURTHER EXAMINATIONS OF ENGINE DISCOVERED CRACK ON OIL PRESSURE SUPPLY LINE TO THE

AFT BEARING AREA. THE PART WAS REPLACED AND RUN AND LEAK CHECKS COMPLIED WITH. NO LEAKS

AMTR LYC GOVERNOR MALFUNCTIONED 02/17/2003 673

RV8 0360A1A B210776A PROPELLER 2003021900024

PROPELLER WOULD CYCLE NORMALLY DURING RUN UP. AFTER TAKE OFF THE PROP WOULD BECOME UNCONTROLLABLE. RMP ONLY CONTROLLABLE BY THROTTLE, NOT PROPELLER CONTROL. REMOVAL AND DISASSEMBLY OF PROP GOVERNOR REVEALED THAT ALLEN SCREW HAD BACKED OUT OF REAR OF UNIT AND WAS CAUGHT BY INTERNAL GASKET SCREEN BETWEEN UNIT AND ACCESSORY HOUSING. THIS WAS A FACTORY NEW UNIT WITH 673 HRS. APPEARS ALLEN SCREW WAS NOT PROPERLY TIGHTENED AT FACTORY. REINSTALLED WITH LOCK TIGHT AND TIGHTENED SECURELY. HAD THERE NOT BEEN GASKET SCREEN IN PLACE, ENGINE DAMAGE OR STOPPAGE

TIGHT AND TIGHTENED SECURELY. HAD THERE NOT BEEN GASKET SCREEN IN PLACE, ENGINE DAMAGE OR STOPPAGE

BEECH PWA SKIN CRACKED 01/27/2003

100BEECH PT6A28 9913000011 RT AILERON 2003021400100

100BEECH PT6A28 9913000011 RT AILERON 2003021400100 (CAN) A 1.5 CENTIMETER CRACK FOUND RADIATING FROM A RIVET ON SECOND RIB FROM INBOARD EDGE AND LAST RIVET HOLE BEFORE THE TRAILING EDGE. ANOTHER .5 CENTIMETER CRACK IN SKIN FOUND RADIATING FROM THE SECOND RIVET FROM THE TRAILING EDGE ON THE THIRD RIB. THE CRACKS WERE DIFFICULT TO SEE BUT WERE INDICATED BY THE PAINT. THE SKIN HAD BEEN REPLACED AND HAD 870. 2 HOURS SINCE NEW. BEECHCRAFT IS BEEN CONTACTED TO DISCUSS ANY WARRANTY OPTIONS.

 BEECH
 PWA
 SEAL RING
 STUCK
 01/28/2003

 1900C
 PT6A65B
 3022852
 R GEARBOX
 2003021400103

(CAN) AFTER ENGINE START, THE TORQUE READING INDICATED APPROX 3000 FT/LBS. POWER INCREASES OR DECREASES HAD LITTLE EFFECT. TROUBLESHOOTING WAS PERFORMED. A TORQUE INDICATION SYSTEM CALIBRATION TESTER WAS CONNECTED AND INDICATION WAS NORMAL. A TEST GAUGE WAS CONNECTED TO THE TORQUEMETER OIL LINE AND CONFIRMED A HIGH READING USING THE STARTER TO SPOOL. A SERVICE REP SUGGESTED THAT THE TORQUEMETER PISTON INSIDE THE RGB MAY BE HUNG UP. THIS CAN BE CAUSED BY THE TEFLON RINGS ON THE METER PISTON STICKING BEFORE THEY ARE WORN IN. SUGGESTED TO BLOW LOW PRESSURE AIR INTO THE OIL LINE IN THE RGB WHILE ROCKING THE PROP BACK AND FORTH. THIS PROCEDURE RECTIFIED THE

BEECH CONT STRUCTURE CRACKED 01/03/2003 35BEECH E18511 35405130 STABILIZER 2003020400105 CRACK FOUND IN LOWER RT ATTACH BOLT HOLE FROM HOLE CENTER AT THE 2 O'CLOCK POSITION. FOUND DURING INSPECTION FOR AD. CRACK LENGTH . 250 INCH. BEECH TURNBUCKLE BROKEN 01/15/2003 36BEECH 3652400019 CONTROL CABLE 2003020500225 AILERON CABLE TURNBUCKLE FORWARD OF AFT SPAR BROKEN. SAFETY WIRE HOLDING CABLE TOGETHER, FOUND DURING ANNUAL INSPECTION. CABLE HAD BEEN CONTACTING AFT HEAT DUCT. APPEARS TO HAVE INTERNAL CORROSION FROM CONTACT WITH WIRE IN HEAT DUCT. FITTING SHOW NO SIGN OF WEAR OR EXTERNAL CORROSION. BEECH ENCODER OUT OF ADJUST 01/10/2003 IO520* COCKPIT 2003020500065 ENCODER MISSING HIGH ALTITUDE ADJUSTMENT OUT OF THE FACTORY. THE MM REQUIRES YOU TO CALIBRATE THE ENCODER USING HIGH ALTITUDE AND LOW ALTITUDE ADJUSTMENT POTS. 01/15/2003 BEECH CONT BEARING LOOSE DISTRIBUTOR BLK TSIO520* 103915686 2003020400228 DURING CRUISE POWER SETTING IN FLIGHT. RT ENGINE RPM FLUX 100-200 RPM AND MANIFOLD PRESSURE FLUX 1 INCH TO 2 INCH. DURING GROUND RUN TO TROUBLESHOOT SYSTEM ENGINE RPM WOULD SUDDENLY DROP 200-400 RPM. AT CRUISE SETTING. PERFORMED MAGNETO CHECK, LT MAG FAILED, BEARING IN DISTRIBUTOR BLOCK SPINNING, POSSIBLE DATE CODE ON BLOCK 01/09. BEECH PW A SWITCH BROKEN PT6A20 2MD31AX287 MLG SELECTOR 2003021400029 (CAN) ON APPROACH, THE LANDING GEAR WAS SELECTED DOWN, BUT THE GEAR DID NOT EXTEND. FIVE ATTEMPTS WERE MADE TO EXTEND THE GEAR NORMALLY AND NO JOY. THE GEAR WAS EXTENDED USING THE EMERGENCY EXTENSION SYSTEM. THE PILOT NOTED THAT IT WAS DIFFICULT TO EXTEND. THE EMERGENCY SERVICES WERE ACTIVATED AND A LOWFLY PAST WAS CARRIED OUT TO ENSURE THE GEAR WAS DOWN, THE AIRCRAFT LANDED SUCCESSFULLY, ON INVESTIGATION, ONE OF THE SWITCHES WAS FOUND TO BE FAULTY IN THE LANDING GEAR SELECTOR ASSY. THE GEAR ALSO EXTENDED NORMALLY WHEN USING THE EMERGENCY EXTENSION. THE OAT WAS BLOWER 12/31/2002 BEECH PW A FAIL FD PT6A28 115384007 COCKPIT 2003020400146 (CAN) AIRCRAFT WAS TAXING FROM TERMINAL TO RUNWAY WHEN SMOKE STARTED FILLING COCKPIT. ELECTRICAL COMPONENTS WERE TURNED OFF AND AIRCRAFT RETURNED TO TERMINAL. MAINTENANCE WAS CONTACTED AND FORWARD VENT BLOWER WAS REPLACED. GROUND CHECKED SERVICEABLE. BEECH **PWA** LINE BLOCKED 11/28/2002 RT ENG P3 SUPPLY A100 PT6A28 2003020400135 (CAN) AFTER TAKEOFF IN THE CLIMB THROUGH 15.000 FT THE RT ENGINE EXPERIENCED THREE MAJOR SURGES WITH FLUCTUATIONS OF TORQUE, NG, ITT, AND FUEL FLOW ALONG WITH FLAMES SHOOTING FROM THE ENGINE EXHAUST. AFTER EXTENSIVE TROUBLESHOOTING THE ENGINE WAS DEEMED TO BE INTERNALLY AT FAULT. THE ENGINE WAS REPLACED AND THE AIRCRAFT RETURNED BACK TO SERVICE. THE ENGINEER MOVED WAS FOUND TO HAVE A PARTIAL BLOCKAGE OF THE P3 SUPPLY TUBE TO THE BLEED OFF VALVE. THE BLOCKAGE WAS CLEARED AND THE ENGINE RETESTED SATISFACTORY AT THE REPAIR FACILITY. BEECH PWALINE FROZEN 01/13/2003 PT6A28 OUTFLOW VALVE 2003020400147 A 100 (CAN) OUTFLOW VALVE SUCTION LINE WAS FROZEN CAUSING AIRCRAFT TO PRESSURIZE ON THE GROUND. COULD NOT BE CONTROLLED BY CONTROLLER. LINE WAS BLOWN OUT AND SYSTEM CHECKED SERVICEABLE AS PER 01/27/2003 DOWNLOCK PW A **FAILED** A100 PT6A28 1003810061 LT MLG 2003021400105 (CAN) WHILE ON APPROACH THE PILOT SELECTED GEAR DOWN AND THE LT GEAR INDICATION DID NOT ILLUMINATE. THE GEAR WAS CYCLED WITH NO CHANGE. THE AIRCRAFT LANDED WITHOUT INCIDENT. MAINTENANCE REPLACED THE LEFT GEAR DOWNLOCK INDICATOR SWITCH AND SYSTEM WAS TESTED SERVICEABLE CRACKED SPLINE PW A 02/04/2003 ELEVATORS 2003021400113 A100 PT6A28 115610010125 $(CAN)\ UPON\ A\ RECENT\ INSPECTION\ REQUESTED\ B\ Y\ THE\ REGIONAL\ PMI\ IT\ WAS\ DISCOVERED\ THAT\ THE\ TRAILING\ EDGE\ SPLINES\ ON\ BOTH\ PORT$ AND STARBOARD ELEVATORS WERE CRACKED. THE ELEVATOR TRAILING EDGE SPLINES ARE PRESENTLY BEING CLOSELY MONITORED AND WILL BE REPLACED IN THE NEAR FUTURE. UNSERVICEABLE **PWA** COAX 01/29/2003 B200 PT6A42 RG223 INSTRUMENTS 2003021400099 (CAN) DURING AIRCRAFT IMPORTATION INSPECTION INTO CANADA, AVIONICS CHECKS NOTED WEAK NAVIGATION, COMMS, G/S RECEPTION. TROUBLESHOOTING FOUND THAT THE COAXIAL CABLE INSTALLED FOR THE ENTIRE AIRCRAFT, NAVIGATION, AND COMMUNICATIONS SYSTEMS HAD A MANUFACTURING DEFECT FROM DAY ONE OF INSTALLATION. THE INNER CORE OF TO CABLE DOES NOT RUN IN THE CENTER OF THE INSULATOR, THE CORE TOUCHES THE SHIELDING IN MULTIPLE LOCATIONS OF THE CABLE CAUSING SHORTS IN THE CABLE. WINDSHIELD PWA 12/27/2002 BEECH FAILED 2003020600107 PT6A60A 1013840227 R300 COCKPIT A/C WAS ENROUTE AT FL260, WINDSHIELD ANTI-ICE WAS SELECTED ON AND WAS ON FOUR 1 1/2 HOURS WHEN A LOUD CRACK WAS HEARD AND THE PILOTS WINDSHIELD SHATTERED THE INNER PANE INTO PEA SIZED PIECES. CREW FOLLOWED AIRCRAFT ABNORMAL PROCEDURES AND DESCENDED BELOW 25,000 FEET AND KEEP CABIN PSI BETWEEN 2 AND 4. 6. OAT AT TIME WAS -35C. AIRCRAFT WAS FLOWN BACK TO HOME BASE BEECH PW/Δ WINDSHIELD FAILED 02/02/2000 PT6A60A 10138402517 COCKPIT 2003020600108 A/C WAS ENROUTE TO TEB AT FL290, WINDSHIELD ANTI-ICE WAS SELECTED FOR 1HOUR WHEN A LOUD CRACK WAS HEARD AND THE PILOTS WINDSHIELD SHATTERED THE INNER PANE INTO PEA SIZED PIECES. CREW FOLLOWED AIRCRAFT ABNORMAL PROCEDURES AND DESCENDED BELOW25,000 FEET AND KEEP CABIN PSI BETWEEN 2 AND 4 PSI, TEMP AT ALTITUDE WAS -39C, AIRCRAFT WAS FLOWN TO TEB AND REPAIRED BEECH PW A CONTROL. FAILED 01/07/2003 NAS302665170 ELEVATOR 2003020400231 ELEVATOR TRIM CABLE FAILED IN FLIGHT WITH NO INCIDENT AT STATION 216. CABLE BROKE AT THE ELEVATOR TRIM SERVO (SERVO: PN 1C4696456). TRIM SER VO HAD BEEN REPLACED ON YEAR PRIOR WITH NO NOTED DEFECTS TO THE TRIM CABLE AT THAT TIME. STC SA 1454SW EDO AIRE MITCHELL FLIGHT DIRECTOR AUTO-PILOT SYSTEM WAS INSTALLED APRIL 3, 1972. TIME ON FAILED PART IS 10.034, 1 HOURS, SUSPECT CABLE HAD INTERNAL FAILURE OF STRANDS UNABLE TO SEE WHEN INSTALLED ON SERVO. (SW15200304640) HOUSING CRACKED 01/02/2003 BEECH 2003020400224 C90A PT6* 30216018 OIL PUMP OIL PRESSURE DROPPED IN FLIGHT TO BOTTOM OF GREEN ARC. TROUBLESHOOTING FOUND OIL PUMP HOUSING TO BE CRACKED. BEECH PWAEXHAUST CRACKED 01/14/2003 C90A PT6A21 1099500001 **ENGINE** 2003020400151 (CAN) DURING ROUTINE INSPECTION THE ANTI ICE BOSS ON THE LT EXHAUST STACK P/N 1099500001 WAS FOUND BROKEN OFF WITH THE ANTI ICE FLEX TUBE. THE FLEX TUBE WAS ALSO CRACKED AROUND THE LOWER ELBOW.

BEECH PWA BEECH LINE COLLAPSED 01/16/2003 130936P8D1000 DEICE SYS 2003020400160 C90A PT6A21 (CAN) THE TUBING THAT SUPPLIES PNEUMATIC PRESSURE TO THE DEICER BOOTS WAS FOUND COLLAPSED. THIS TUBE IS LOCATED UNDER THE HEAT REGISTER IN THE AFT BAGGAGE COMPARTMENT. IT APPEARS THE TUBING WAS WARM AND COLLAPSED DURING THE DEICE BOOT CYCLE. THE HEATER DUCT SHOWS NO SIGN OF LEAKAGE. DAMAGED AREA IS 1 1/4 INCH LONG. REF. 'FIRE AND ICE AVIATION SAFETY, OCT2002 PG 25 'KING AIR HEATER DISABLES DEICE SYSTEM FOR TURBO PROP empennage' ALLSN BEAM ELONGATED 250C30P 206033210 FUSELAGE 2003020500117 2061.3 NUMEROUS RIVETS WERE FOUND WORKING LOOSE IN THE BOX BEAM DURING A 100/300/ANNUAL INSPECTION, REQUIRED REPLACEMENT OF 20EACH CHERRY MAXI-BOLTS, 16 EACH CHERRY MAX RIVETS. DIGITAL PICTURES WERE TAKEN TO FURTHER DESCRIBE. FUEL CONTROL MALFUNCTIONED 12/12/2002 2003020100010 **ENGINE** (CAN) NORMAL TAKEOFF, AFTER REDUCING COLLECTIVE TO 70 PERCENT, TURBINE AND ROTOR RPM AT 105 PERCENT, BEEPED DOWN WITH NO RESPONSE, COLLECTIVE WAS LOWERED TO SLOW DOWN AND ROTOR RPM WAS NOW 115-120 PERCENT. PILOT ROLLED BACK THROTTLE TO DISENGAGE GOVERNOR, RPM REMAINED AT 115-120 PERCENT. THROTTLE WAS NOW AT FLIGHT IDLE WITH RPM AT 115-120 PERCENT. REDUCED AIRSPEED TO 60 MPH AND DESCENDED. AT APPROX. 300 FT, ENGINE SLOWED DOWN, FULL THROTTLE WAS APPLIED AND 100 PERCENT ROTOR RPM WAS REACHED & STABLE. ALL TEMPS AND RPMS WERE NORMAL, FLT WAS CONTINUED FOR 8 MINUTES BACK TO CAMP. ROTOR RPM WAS BETWEEN 115-120 PERCENT FOR 20-30 SECONDS, AFTER INSPECTING OIL LEVELS AND CHIP BELL. HOSE CHAFED 02/05/2003 23063412 2003021900112 ENGINE THIS HOSE DETERIORATES RAPIDLY DUE TO THE FACT THAT THE HOSE IS A CORRUGATED TUBE HOUSED IN A STEEL BRAID THAT CHAFES THE TUBE CAUSING CHAFE DAMAGE TO THE HOSE AND SUBSEQUENT OIL LEAK. THIS HOSE SHOULD BE REDESIGNED TO EXTEND RELIABILITY. THE HOSES LAST ABOUT 2 YEARS, 1,000 HOURS. BNORM LYC FUSE CORRODED 12/23/2002 IO540K1B5 DC POWER DISTRIB 2003021100053 BN2B20 L56225 (AUS) BUSBAR UNDERVOLTAGE FUSE F86 CORRODED AND BROKEN. BOLKMS BLADE OUT OF BALANCE 01/30/2003 BK117A3 11731743 TAIL ROTOR 2003020400090 BLADES WOULD NOT BALANCE. REPLACED WITH SERVICEABLE UNITS S/N 413 AND 414. BOLKMS ALLSN CRACKED 01/31/2003 CASE COMPRESSOR BO105CBS 250C20B 23057142 2003020400091 ONE 4TH STAGE COMPRESSOR STATOR VANE BROKE OFF SEVERELY DAMAGING THE 4TH & 5TH STAGE COMPRESSOR BLADES WITH SUBSEQUENT COMPRESSOR STALLING AND LOW ENGINE POWER. **SQUATSWITCH** FAILED 01/07/2003 BAE125800A 1EN114N119 MLG 2003020600104 AFTER 2 HOURS INTO FLIGHT AT A CRUISE ALTITUDE OF FL370, THE CABIN ALTITUDE SUDDENLY STARTED TO CLIMB AT A RAPID RATE. THE CABIN ALTITUDE WARNING SOUNDED, THE PAX O2 MASKS DROPPED, THE CREW IMMEDIATELY DONNED THEIR MASKS AND STARTED AN EMERGENCY DESCENT. AFTER STABILIZING BELOW 10000 FT, THE CREW NOTICED OTHER INDICATIONS THAT LED MAINTENANCE TO THE SQUAT SWITCH. UPON LANDING AT THE NEAREST AIRPORT, MAINTENANCE FOUND THE LEFT SQUAT SWITCH HAD FAILED, CAUSING THE AIRPLANE TO THINK IT WAS ON THE GROUND, AND CAUSING THE CABIN VENTURI TO TURN ON, WHICH OPENED THE OUTFLOW VALVE. BRAERO CRACKED 01/10/2003 VANE 2003020500207 HS125700A RT TE FLAP DURING ROUTINE INSPECTION, IT WAS FOUND THAT THE RT FLAP VANE AT THE NR 2 ATTACH POINT HAD A HAIRLINE CRACK. REPAIR WAS FABRICATED AND INSTALLED IAW SRM. CRACKED HS125700A RT TE FLAP 2003020500211 DURING ROUTINE INSPECTION, IT WAS FOUND THAT THE RT FLAP VANE AT THE NR 2 ATTACH POINT HAD A HAIRLINE CRACK. REPAIR WAS FABRICATED AND INSTALLED IAW SRM. BRAERO GARRTT CONDUIT CORRODED 01/13/2003 25PF295139A FUEL CELL 2003021900041 TFE731* CORROSION CAUSES PIN HOLES, FUEL LEAKS INTO CONDUIT AND LEAKS INTO BOOST PUMP WIRES. POSSIBLE EXPLOSION OR FIRE WITH FUEL LEAKING DIRECTLY INTO WIRES. SUGGEST EMERGENCY INSPECTION OF ALL CONDUITS. IN ALL SIMILAR MAKE AND MODELS THE TUBE CORRODES FROM THE INSIDE, WHICH IS NOT PAINTED. CESSNA CONT DOOR FRAME CRACKED 01/15/2003 19600 150L O200A 04118684 FUSELAGE 2003021300117 (CAN) DOOR POST SKIN EXTERIOR FOUND 0.5 INCH CRACK AT THE CENTER OF THE CURVE CUTOUT AT THE FORWARD UPPER DOOR ON THE FUSELAGE. CESSNA STRAP BROKEN 07/20/2002 RT AFT FUEL TANK 2003020100132 O235L2C 04265126 152 (CAN) FUEL LEAK. RT WING. UPON REMOVAL OF THE FUEL TANK WING PANEL, DISCOVERED THE AFT FUEL TANK STRAP TO BE BROKEN. DUE TO THE BROKEN STRAP THE SCREEN ASSEMBLY HAD CHAFED THROUGH THE TOP OF THE FUEL TANK CAUSING A FUEL LEAK. FUEL TANK REPAIRED AT AN APPROVED REPAIR SHOP, NEW STRAP AND SCREEN ASSEMBLY INSTALLED CARRIED OUT FUEL TANK INSTALLATION AS PER CESSNA MAINTENANCE MANUAL AND ALL SYSTEM CHECKED SERVICEABLE AND AIRCRAFT WAS RETURNED TO SERVICE. CESSNA CRACKED 12/06/2002 13957 LYC RIB 152 O235L2C 04320016 HORIZONTAL STAB 2003020100144 (CAN) RT HORIZONTAL STAB RIB WAS FOUND CRACKED. CARBURETOR MALFUNCTIONED CESSNA LYC 12/18/2002 ENGINE 2003021400032 152 105267 (CAN) ROUGH RUNNING ENGINE WAS NOTICED IN FLIGHT. PILOT THOUGHT IT WAS CARB ICE TRIED TO CLEAR IT OUT BY USING CARB HEAT. THIS DID NOT WORK, SO HE CAME BACK TO THE HANGER. AIRCRAFT WAS BROUGHT BACK INTO THE HANGER, ALL THE PLUGS WERE CLEANED. THEY WERE FULL OF LEAD, THE MAGNETO TIMING WAS CHECKED BUT IT WAS OKAY. AIRCRAFT WAS TAKEN OUTSIDE AND RAN UP, ENGINE WAS STILL RUNNING ROUGH SO IT WAS BROUGHT BACK IN AGAIN. ANOTHER CARB WAS INSTALLED AND AIRCRAFT WAS RUN UP AGAIN THIS TIME THE ENGINE RAN SMOOTH, CARB WAS SENT OUT FOR REPAIRS NOTHING OBVIOUS WAS FOUND AT THE ENGINE SHOP, ENGINE SHOP REPLACED THROTTLE SHAFT BUSHINGS. OTHER THAN THAT IT WAS IN GOOD SHAPE. 01/07/2003 CESSNA LYC CABLE WORN O320E2D 172K O320E2D MIXTURE 2003021100060 S17773 (AUS) ENGINE MIXTURE CONTROL INNER CABLE WORN.

CESSNA LYC MOUNT CRACKED 01/09/2003 10164 O320E2D 95510171 **ENGINE** 2003021300113 172L (CAN) ONE CRACK FOUND AT ONE TOP DYNAFOCAL WELD TO TUBE. FOUR CRACKS FOUND AT CROSS TUBE BETWEEN LOWER LEGS AT WELDED AREAS. ALL CRACKS FOUND DURING DYE-PENETRANT INSPECTION CARRIED OUT IN ACCORDANCE WITH CESSNA'S CONTINUING AIRWORTHINESS PROGRAM, CAP 71-20-00. MOUNT IS OLDER STYLE, LACKING WELDED FINGER-PATCH REINFORCEMENTS FOUND ON LATER MODELS AT CROSS-TUBE WELDS. CRACKS REPAIRED AND MOUNT RETURNED TO SERVICE. LYC BEARING FAILED 01/13/2003 172P O320D2J O320D2J SL16711 RECIPROCATING 2003021100064 (AUS) NO4 MAIN BEARING FAILED. BEARING MATERIAL MISSING FROM BEARING SHELL. AREA OF MISSING MATERIAL APPROXIMATELY 15MM $\verb| BY 10MM (0.59INBY 0.39IN). A SMALLER AREA OF BEARING MATERIAL WAS ALSO FOUND MISSING FROM NO3 MAIN BEARING SHELL. THE AREA OF BEARING MATERIAL WAS ALSO FOUND MISSING FROM NO3 MAIN BEARING SHELL. THE AREA OF BEARING MATERIAL WAS ALSO FOUND MISSING FROM NO3 MAIN BEARING SHELL. THE AREA OF BEARING MATERIAL WAS ALSO FOUND MISSING FROM NO3 MAIN BEARING SHELL. THE AREA OF BEARING MATERIAL WAS ALSO FOUND MISSING FROM NO3 MAIN BEARING SHELL. THE AREA OF BEARING MATERIAL WAS ALSO FOUND MISSING FROM NO3 MAIN BEARING SHELL. THE AREA OF BEARING MATERIAL WAS ALSO FOUND MISSING FROM NO3 MAIN BEARING SHELL. THE AREA OF BEARING MATERIAL WAS ALSO FOUND MISSING FROM NO3 MAIN BEARING SHELL. THE AREA OF BEARING MATERIAL WAS ALSO FOUND MISSING FROM NO3 MAIN BEARING SHELL. THE AREA OF BEARING MATERIAL WAS ALSO FOUND MISSING FROM NO3 MAIN BEARING SHELL. THE AREA OF BEARING MATERIAL WAS ALSO FOUND MISSING FROM NO3 MAIN BEARING SHELL. THE AREA OF BEARING MATERIAL WAS ALSO FOUND MISSING FROM NO3 MAIN BEARING SHELL. THE AREA OF BEARING MATERIAL WAS ALSO FOUND MISSING FROM NO3 MAIN BEARING SHELL. THE AREA OF BEARING MISSING FROM NO3 MAIN BEARING FR$ OF BEARING MATERIAL DELAMINATED/ERODED FROM NO3 BEARING IS APPROXIMATELY 7MM BY 5MM (0. 275IN BY 0. 196IN). THE BEARING SURFACE CONTAINED CRACKS AND EVIDENCE THAT ADJOINING AREAS OF THE BEARING SURFACE WERE DISTRESSED AND WOULD FAIL IN THE NEAR FUTURE. METAL CONTAMINATION OF OIL SYSTEM. CESSNA UNSERVICEABLE 01/15/2003 LYC 103601.24 VACUUMSYSTEM 2003021300061 (CAN) THE VACUUM SYSTEM CHECK VALVE MANIFOLD WAS DETERMINED TO BE UNSERVICEABLE DUE TO LEAKS PAST THE CHECK VALVE DISC. THIS FINDING WAS DETERMINED BY FOLLOWING THE INSPECTION CRITERIA CONTAINED IN CESSNA SB02-37-04. THE PART WAS REMOVED FROM SERVICE AND A REPLACEMENT PART WAS ORDERED. UNSERVICEABLE CESSNA LYC CHECK VALVE 01/16/2003 IO360L2A 2003021300062 VACUUM SYSTEM (CAN) THE VACUUM SYSTEM CHECK VALVE MANIFOLD WAS DETERMINED TO BE UNSERVICEABLE DUE TO LEAKS PAST THE CHECK VALVE DISC. THIS FINDING WAS DETERMINED BY FOLLOWING THE INSPECTION CRITERIA CONTAINED IN CESSNA SB 02-37-04. THE PART WAS REMOVED FROM SERVICE AND A REPLACEMENT PART WAS ORDERED. CESSNA LYC BUSHING UNSECURE 01/28/2003 O360* MLG ACTUATOR 172RG 24900022 2003021900188 DURING 100HR INSPECTION, TECHNICIAN FOUND THE LT MLG ACTUATOR CAP BUSHING. UNSEATED AND STICKING OUT OF THE ACTUATOR CAP. DURING RETRACT TEST, IT WAS FOUND THAT THE BUSHING NOW INTERFERED WITH THE BRAKE SWIVEL FITTING. THE CAP WAS REMOVED AND A NEW BUSHING WAS INSTALLED IAW SEB AND SERVICE KIT. ACCOMPLISHMENT INSTRUCTIONS 99. 9 HOURS LATER, THE SAME CONDITION WAS FOUND AGAIN, THIS TIME IN BOTH ACTUATOR CAPS. AGAIN, BOTH BUSHINGS WERE REPLACED. IT IS POSSIBLE THAT THE EC1300L ADHESIVE CALLED FOR IN SK172-151 IS NOT COMPATIBLE WITH THE GREASE OR HYDRAULIC FLUID FOUND IN THE ACTUATORS. ALL PARTS WERE THOROUGHLY CLEANED PRIOR TO INSTALLATION. CESSNA LYC BUSHING UNSECURE 01/28/2003 172RG O360* 2490022 MLG ACTUATOR 2003021900190 DURING 100 HOUR INSPECTION, TECHNICIAN FOUND RT MLG ACTUATOR CAP BUSHING, UNSEATED AND STICKING OUT OF THE ACTUATOR CAP. DURING RETRACT TEST, IT WAS FOUND THAT THE BUSHING NOW INTERFERED WITH THE BRAKE SWIVEL FITTING, THE CAP WAS REMOVED AND A NEW BUSHING WAS INSTALLED IAW MFG SEB. THE SAME CONDITION WAS FOUND AGAIN IN THE RT ACTUATOR AND THE BUSHING WAS REPLACED. IT IS POSSIBLE THAT THE EC 1300L ADHESIVE CALLED FOR IN SK172-151 IS NOT COMPATIBLE WITH THE GREASE OR HYDRAULIC FLUID FOUND IN THE ACTUATORS. ALL PARTS ARE CLEANED PRIOR TO INSTALLATION. CESSNA COMMUTATOR 12/09/2002 HYD PUMP MOTOR IO360A1A 2003020400093 PUMP OPERATED SLOWLY. SENT FOR OVERHAUL WHICH SHOWED THAT MOTOR BRUSHES WERE WORN AND THE COMMUTATOR WAS WORN IRREGULARLY. LED TO SLOW OPERATION OF THE LANDING GEAR. CESSNA LYC DOWNLOCK SHORTED 12/09/2002 177RG IO360A1A 20700174 MLG 2003020400094 FOUND THAT RT MLG DOWNLOCK SWITCH TO BE STUCK IN THE CLOSED POSITION WHICH, WHEN COMBINED WITH THE LT MLG DOWNLOCK SWITCH OPERATING IMPROPERLY, LED TO A LANDING WHERE THE MAIN GEAR COLLAPSED WITH A GREEN DOWN AND LOCKED LIGHT. 01/13/2003 LYC ATTACH CRACKED 177RG IO360A1B6 RUDDER STOP 2003021900186 FOUND LT RUDDER STOP RIDING OVER HORN AREA. THIS CAUSED DEFLECTION OF HORN ATTACHMENT AND CRACK. STOP BOLTS NOT HITTING HORN SQUARELY, CAUSING HORN TO RIDE UP OR DOWN UNDER STOP BOLT. ASSURE STOP BOLTS HIT HORN SQUARELY. CESSNA BULKHEAD CRACKED 01/13/2003 182Q FUSELAGE 2003020600080 07126153 SMALL CRACK IN AFT FUSELAGE BULKHEAD AT STATION 209. ORIGINATING FROM UNDER THE RT HORIZONTAL STABILIZER UPPER ATTACH POINT. CESSNA STRUCTURE CRACKED 12/12/2002 182Q O470* RT WING 2003013100160 (AUS) RT WING COMPONENTS CRACKED. COMPONENTS AFFECTED INCLUDE: TRAILING EDGE RIB LOCATED AT STA 23, 625, WING ROOT RT RIB ASSY LOCATED AT STA 23, 625, WING SPAR REINFORCEMENT FITTING, WHEN CHANGING TRAILING EDGE RIB LOCATED AT WS 23, 625, IT WAS NOTED THAT RIVETING HAD BEEN INCORRECTLY CARRIED OUT WITH 1/8 IN RIVETS IN 5/32 IN HOLES (SOME NOT ALL). WHEN SEALER WAS REMOVED FROM THE WING ROOT AT STA 23, 625, THREE CRACKS WERE FOUND IN THE PART (RIB ASSEMBLY - WING ROOT). SUSPECT REPAIRS CARRIED OUT IN USA PRIOR TO AIRCRAFT ARRIVAL IN AUSTRALIA. PERSONNEL/MAINTENANCE ERROR. UNAPPROVED PART. CESSNA BULKHEAD CRACKED 01/13/2003 FUSELAGE 2003020500067 182Q 0470* 07126153 SMALL CRACK IN AFT FUSELAGE BULKHEAD AT STATION 209. ORIGINATING FROM UNDER THE RIGHT HORIZONTAL STABILIZER UPPER ATTACH POINT. CESSNA BULKHEAD CRACKED 01/21/2003 FUSELAGE 2003020500224 182Q 07126153 SMALL CRACK IN AFT BULKHEAD AT STATION 209. ORIGINATING FROM UNDER THE ATTACH POINT OF RT HORIZONTAL STABILIZER, AT THE UPPER INBOARD CORNER. CESSNA FIREWALL. DAMAGED 01/02/2003 CONT 1820 O470U NACELLE/PYLON, 2003021100061 (AUS) PILOT REPORTED THAT THE RUDDER TRIM WAS NOT WORKING. INVESTIGATION FOUND DAMAGE TO THE FIREWALL AND SUPPORTING STRUCTURE. CESSNA LYC BATTERY CORRODED 01/16/2003 IO540* 2003021900034 2020REVA ELT SERIES 2000 AND 3000 BATTERY CORRODED FROM GASSING BATTERY DISCOLORED STYROFOAM CASE, ALSO CAUSED DAMAGED TO ELT PLASTIC COVER. DISCOVERED AT ANNUAL INSPECTION. SUGGEST MORE FREQUENT INSPECTION. CESSNA PWACESSNA SHROUD CRACKED 01/17/2003 208B PT6A114A 2652022208 26520227 OUTBOARD 2003021100080 (CAN) CRACK IN LOWER RIGHT COWLING APPROXIMATELY AT STN 50 WHERE SHROUD PN 2652022-7 OUTBOARD MEETS HAT SECTION

STRINGER REPAIRED IN ACCORDANCE WITH SIRM 51-76-00 FIG 802, PAGE 803.

CESSNA			SADDLE	BROKEN	01/23/2003	
210	MITH AD 76 14 07	D2 EQUIND LT MAIN C	12410041	MLG GEARBOX	2003020600081	
CESSNA	CONT	R2 FOUND LT MAIN GI	EAR SADDLE BROKET CRANKSHAFT	BROKEN	01/23/2003	
210	IO470E		Cichingina	ENGINE	2003021900096	
			NE FAILURE. INVEST	GATION FOUND THAT THE E	NGINE CRANKSHAFT HAD BR	OKEN
BETWEEN CYL CESSNA	INDERS TWO ANI CONT	O THREE.	TUBE	CORRODED	01/03/2003	
210M	IO520L		12805978	LANDING GEAR	2003021100059	
		LATOR LINE CONTAIN		ION PINHOLE. LOSS OF HYDR		
CESSNA	CONT	MCAULY	CABLE	FAILED	01/04/2003	
210R	IO520L	D3A34C404	C2995120101	PROPELLER	2003021100062 ESPOND TO FURTHER COMMA	ANDC
INVESTIGATIO	N FOUND THAT T	THE STAINLESS STEEL	SHAFT END OF THE F	ROPELLER PITCH CONTROL	CABLE HAD FAILED THROUGH CKING WAS CAUSED BY PREV	н тне
		NEL/MAINTENANCE	DELDRIG	and the same of th	12/25/2002	
CESSNA 310D	CONT IO470*		BEARING HSBG5S	SEIZED NLG	12/27/2002 2003021900097	
		ON INTERMEDIATE ROD			EIZED, CAUSING ROD END TO S	HEAR
				ROD, EFFECTIVELY JAMMIN	G NOSE GEAR. THIS RESULTE	D IN A
NOSE GEAR-UI CESSNA	P LANDING. ROD CONT	END APPARENTLY SN MCAULY			12/04/2002	
310R	IO520M	3AF32C504C	PROPELLER	PROPELLER	12/04/2002 2003021100081	
			E HUB. PROP WAS REM		P. SEAL IN HUB WAS FOUND	ТО ВЕ
		OP WAS REINSTALLED				
CESSNA 340CESSNA	CONT TSIO520NB		BEARING RACE 50411081	CRACKED LT MLG	01/28/2003 3741 2003020500061 643	
		COVERED THAT LT MLO			D. BEARING INNER RACE WAS F	OUND
TO BE CRACKE						
CESSNA	CONT		BULKHEAD	CRACKED	01/06/2003 8800	
402B	TSIO520*	VAS EQUIND IN THE DT E	085150047	RT WING	2003020500181 ATED ON THE INBOARD SIDE O	ECAD
					WING. IT WAS LOCATED IN TH	
OF THE CAP WI	DTH. UPON REMO	OVAL OF CANTED BULE	KHEAD CAP, FOUND F	ORWARD CANTED BULKHEAI	O TO BE CRACKED PERPENDIC	ULAR
					IN LENGTH. FOUND THAT BOT	
		ND ON RIGHT SIDE OF .		D NACELLE WING RIB. FOUND	THIS SAME COMBINATION ON	LEFI
CESSNA	CONT	and ornitional blade or .	BULKHEAD	CRACKED	01/06/2003 8800	
402B	TSIO520*		085150047	ZONE 600	2003020500184	
					VTED BULKHEAD CAP. CRACK ATELY 1.5 INCHES AND RAN C	
					KHEAD CAP I FOUND THE FOR	
CANTED BULK	HEAD TO BE CRA	CKED PERPENDICULA	R TO THE CAP CRACK	ON THE INBOARD SIDE IN TH	HE BEND OF THE TOP FLANGE	
		ENGTH. I FOUND ALSO		AND FORWARD BULKHEADS		
CESSNA 402B	CONT TSIO520*		BULKHEAD 085150047	CRACKED ZONE 600	01/06/2003 8800 2003020500189	
		AS FOUND IN RIGHT EN			TED ON INBOARD SIDE OF CAI	JUST
					WING, IT WAS LOCATED IN TH	
					D TO BE CRACKED PERPENDIC D FORWARD BULKHEADS INB	
				AME COMBINATION ON THE L		OAKD
CESSNA	CONT		SUPPORT	CRACKED	12/05/2002 17944	4
402C	TSIO520VB		50110117	SEAT	2003020100059	3 4 D.D.
					D, AND GUSSET ASSY LT INBO RACKED ON TOP SURFACE RUN	
				,	EFERENCE 53-40-00, FIGURE 01.	
CESSNA			SKIN PANEL	CRACKED	02/07/2003 8221	
501	SE 1 5 DISCOVEDE	ED CD A CV S IN LT A ND D	TWING SKIN AT AET	LT & RT WING	2003021900025 ELL CUT OUT, LT WING CRACE	ZWAC
					DEFINITION S-550-0264/02RD D	
NOVEMBER 14,	2000.					
CESSNA			SKIN	CRACKED	01/15/2003	
550 WHILE DOING	A DAII V INSPEC	TION A 1 3/4 INCH CRA	522277577 CK WAS FOUND IN T	LT WING	2003020500217 IE INBOARD FLAP BELLCRAN	K WE
					WING AT ONE POINT OR ANO	
					S A COMMON THING TO THE F	
					S TO ME THAT IF THIS IS A CON	
THING THEM W	PWA	IFG. COME UP WITH A S	SB AND A REPAIR KIT SKIN	AS WE HAVE SEEN IN THE PAR CRACKED	ST ON OTHER LESS COSTLY A/ 12/23/2002	C
550	JT15D4		55240051	LT AILERON	2003020100044	
		EIGHT ATTACHMENT S			M UNDER THE SCREW HEADS.	
CESSNA 560CESSNA	PWA JT15D5		AILERON 6524113205	JAMMED WING	01/08/2003 2003020500201	
		DEGREES IN FLIGHT W		WING NOT BE ABLE TO READJUST T		
CESSNA	LYC		BRACKET	CRACKED	01/03/2003 4123	
A152	O235*	CD A CIVED NUMBER A TO	04320049	FUSELAGE	2003020500238	IDDEE
					AS FOUND CRACKED ON THE UNG THE TOP BEND. THIS CRA	
					T NUT PLATES ADDRESSED II	
MENTIONED A	D, HOWEVER THE	E AD DOES NOT ADDRE	SS AN INSPECTION OF	THE SUPPORTING STRUCTURE	RE IN ANY MANNER.	

CESSNA CONT COWLING WORN 12/31/2002 TSIO520* 1213401 **ENGINE** 2003020400092 T210L IT IS POSSIBLE THAT DUE TO NORMAL WEAR OF THE ENGINE COWL CAUSED CONTACT WITH THE NLG DOOR EDGE PREVENTING THE NLG FROM $FULLY\,EXTENDING.\,IN\,ADDITION\,IT\,IS\,POSSIBLE\,THAT\,DUE\,TO\,THE\,INCORPORATION\,OF\,STC\,SA\,5934SW,\,REMOVING\,HYDRAULIC\,POWER\,FROM\,ADDITION\,IT\,IS\,POSSIBLE\,THAT\,DUE\,TO\,THE\,INCORPORATION\,OF\,STC\,SA\,5934SW,\,REMOVING\,HYDRAULIC\,POWER\,FROM\,ADDITION\,IT\,IS\,POSSIBLE\,THAT\,DUE\,TO\,THE\,INCORPORATION\,OF\,STC\,SA\,5934SW,\,REMOVING\,HYDRAULIC\,POWER\,FROM\,ADDITION\,IT\,IS\,POSSIBLE\,THAT\,DUE\,TO\,THE\,INCORPORATION\,OF\,STC\,SA\,5934SW,\,REMOVING\,HYDRAULIC\,POWER\,FROM\,ADDITION\,IT\,IS\,POSSIBLE\,THAT\,DUE\,TO\,THE\,INCORPORATION\,OF\,STC\,SA\,5934SW,\,REMOVING\,HYDRAULIC\,POWER\,FROM\,ADDITION\,IT\,IS\,POSSIBLE\,THAT\,DUE\,TO\,THE\,INCORPORATION\,OF\,STC\,SA\,5934SW,\,REMOVING\,HYDRAULIC\,POWER\,FROM\,ADDITION\,IT\,IS\,POSSIBLE\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE\,TO\,THAT\,DUE$ THE NLG, ACTUATION PREVENTED FORCING THE DOOR ALL THE WAY OPEN WHICH WOULD ALLOW THE GEAR TO FULLY EXTEND. RESTRICTED 02/11/2003 2003021900021 T210N S217840144 NLG THE CESSNA 210 LANDED WITH THE NOSE LANDING GEAR STILL IN THE NOSE WHEEL WELL. UPON TROUBLESHOOTING THE NOSE GEAR HYDRAULIC SYSTEM, FOUND ONE OF THE NOSE GEAR ACTUATOR HOSES RESTRICTED AND KINKED. CESSNA SERVICE BULLETIN SEB92-8 RELATES TO THE CHANGING OF CERTAIN LANDING GEAR HOSES ON AFFECTED AIRCRAFT, WITH THIS AIRCRAFT IN THE AFFECTED SERIAL CESSNA BELLCRANK BROKEN T310O 08421022 MLG 2003020500220 THE IDLER BELLCRANK FOR THE NOSE GEAR RETRACTION LINKAGE BROKE WHEN THE LANDING GEAR WAS SELECTED TO THE UP POSITION. PILOT WAS UNABLE TO EXTEND THE NOSE GEAR. UPON LANDING THE NOSE GEAR RETRACTED INTO THE WHEEL WELL. INSPECTION REVEALED THAT THE IDLER BELLCRANK BROKE CAUSING THE NOSE GEAR TO BE DISCONNECTED FROM THE GEARBOX. SUSPECT IMPROPER RIGGING OF THE LANDING GEAR CAUSED EXCESSIVE STRESS ON BELLCRANK. MECHANICS NEED TO REMEMBER THAT DUE TO THE DESIGN OF THE LANDING GEAR SYSTEM ON TWIN ENGINE CESSNA'S. ANY ADJUSTMENTS MADE TO ANY OF THE MANY COMPONENTS OF THE LANDING GEAR EFFECTS THE ENTIRE SYSTEM, REQUIRING A COMPLETE RECHECK OF THE LANDING GEAR RIGGING. CESSNA CRACKED **PUMP** 12/05/2002 2003021300115 U206G IO520F 1U128006 VACUUM SYSTEM (CAN) DURING THE SCHEDULED OPERATION NR 2 ENGINE OF THE AIRCRAFT. A CRACK WAS NOTED ON THE ENGINE ATTACH BRACKET OF THE INSTALLED VACUUM PUMP. UPON REMOVAL OF THE PUMP IT WAS DISCOVERED THAT THE ENTIRE ATTACH BRACKET WAS COMPLETELY SEPARATED FROM THE PUMP, FLIGHT CREW HAD NOT NOTED ANY FAILURE AND REPORTED THAT INSTRUMENT AIR PRESSURE WAS NORMAL WHILE IN FLIGHT. THE DAMAGED PUMP WAS REMOVED AND REPLACED WITH A SERVICEABLE UNIT. 01/09/2003 CNDAIR GE GE 6078T55P13 2003021100076 CL6002B19 CF343B1 6078T55P13 FCU (CAN) 60 MILES FROM SAVANNAH, ON DESCENT FROM FL230 TO FL110, CREW REPORTED SLOW RH ENGINE. FLAMEOUT ON DESCENT AT 330KTS AT 3200 FEET/MIN DESCENT. THE INFORMATION THAT FOLLOWS WAS TAKEN FROM AIRCRAFT DEFECT LOG BEGIN QUOTE: DEFECT: ON DESCENT RIGHT ENGINE FLAMED OUT, RIGHT ENG LOW OIL PRESSURE CAS MESSAGE DISPLAYED, ACTION: REMOVED AND REPLACED #2 FCU IAW 73-21-00. OP CK PERFORMED. NO DEFECTS NOTED. OP & LEAK CK GOOD. FUEL FILTER REPLACED, RIG CHECKED, TANKS SUMPED, NO DEFECTS NOTED. DHAV TORQUE TUBE MISREPAIRED 01/22/2003 DHC2MK1 2003021400106 R985AN14B C2T29A ELEVATOR (CAN)PART WAS ACTUALLY REMOVED FROM STOCK FOR INSTALLATION ON A/C, BUT WOULD NOT FIT, IT WAS TAGGED AS 'USED SERVICEABLE'. IT APPEARS AS IF THE END LEVER HAD BEEN HOME MADE AND WELDED ON TO THE TUBE, ALSO PREVIOUSLY WORN ATTACHING HOLES HAD BEEN 'REPAIRED' BY THE WELDING OF WASHERS TO THE LEVERS. THE MECHANIC TRYING TO INSTALL THE UNIT REJECTED IT. DHAV PWAARM CORRODED 05/24/2002 DHC6100 PT6A20 2003021100054 AILERONS (AUS) LH OUTBOARD AILERON HINGE ARM CONTAINED EXFOLIATION CORROSION AROUND BOLT HOLE. HYDRAULIC DHAV PW A LEAKING 01/20/2003 HYDRAULIC LINE 2003021100082 DHC8102 PW120A 82970010401 (CAN) CREW REPORTED HYDRAULIC FLUID LEAKING FROM NO. 1 NACELLE. MAINTENANCE FOUND NO. 2 SYSTEM MLG DOWN PRESSURE HYDRAULIC LINE LEAKING. IPC REF 29-10-00 FIG. 20 ITEM 25. RUPTURED 12/30/2002 DHC8202 PW123D DSC252A40230 LANDING GEAR 2003021100057 (AUS) NO3 BRAKE PACK HYDRAULIC HOSE RUPTURED. LOSS OF NO2 SYSTEM HYDRAULIC FLUID. DIAMON ROTAX ROTAX **EXHAUST** BROKEN 11/13/2002 DA20A1 ROTAX912S3 854116 NR 1 CYLINDER 2003021400009 (CAN) EXHAUST VALVE IN NR 1 CYLINDER BROKEN AT AREA BETWEEN STEM AND HEAD OF VALVE. VALVE DROPPED INTO COMBUSTION AREA AND CAUSED PISTON DAMAGE AND EVENTUALLY ENGINE STOPPAGE. VISIBLE WEAR ON VALVE TRAIN COMPONENTS CONSISTENT WITH IMPROPER PURGING OF LIFTERS AS ADDRESSED BY SB-912-036. NO ENTRY IN ENGINE LOG BOOK TO SHOW COMPLIANCE TO SB-912-036 OR AD-113. AD WAS RELEASED 2 MONTHS BEFORE DIAMON LYC EXHAUST PIPE CRACKED 12/20/2002 DA40 IO360A1A **ENGINE** 2003020100043 (CAN) AIRCRAFT IN FOR NORMAL MAINTENANCE INSPECTION REVEALED EXHAUST PIPES CRACKED AT ALL FOUR EXHAUST FLANGES. GIPPLD SCREW LOOSE 01/16/2003 LYC IO540K1A5 **ENGINE** GA8 STD1339 2003021300091 300 (AUS) ENGINE OIL PUMP BODY 'ALLEN' SCREW LOOSE. FOUND DURING INSPECTION IAW LYCOMING SB/555. GROB RELAY SHORTED 12/09/2002 120A9491105AV HYD SYSTEM DURING PROGRESSIVE INSPECTION AND CYCLE OF THE LANDING GEAR WE HAD A FAILURE OCCURRED. FOUND A BAD HYDRAULIC CONTROL RELAY THAT SHORTED. BECAUSE OF THAT SHORT, IT ALLOW TO MUCH CURRENT TO FLOW TO PC BOARD AND SHORT OUT BOARD BETWEEN RELAYK13 PIN 13 AND 16 TO BOARD PIN 6, RECOMMEND THAT SOME TYPE OF CIRCUIT PROTECTION BE PLACED BEFORE BOARD TO PROTECT FROM POWER SPIKES. PART NEW OUT OF GULSTM TIRE GROOVED 01/16/2003 2003020600083 MLG THIS AIRCRAFT HAS CLEVELAND BRAKES INSTALLED. THE CLEARANCE BETWEEN THE TIRE SIDEWALL AND BRAKE IN MINIMAL. WHEN THE SIDEWALL FLEXES DURING LANDING IT CONTACTS THE BRAKE CAUSING A 360 DEGREE GROVE IN THE TIRE SIDEWALL. THIS DOES NOT SEEM TO OCCUR WITH OTHER TIRE MANUFACTURES, ONLY WITH GOODYEAR FLIGHT CUSTOM II. **GULSTM** RROYCE MISINSTALLED 11/30/2002 G1159 SPEY50614 WING 2003020500197 DURING ROUTINE 24-MONTH ULTRASONIC EXAMINATION NOTED ASC-426 (3 PIECE WING ATTACH FITTING) MODIFICATION WAS IMPROPERLY INSTALLED. NOTED THAT DOUBLER WAS TRIMMED TO FIT WING PLANK CUT OUT INSTEAD OF WING PIN DIAMETER. RECOMMEND ALL OPERATORS VISUALLY INSPECT FOR PROPER INSTALLATION AND

HELIO H295			FITTING 3910104001	CRACKED WING	01/29/2003 2003020500148	
	TTACH FITTING IS	CRACKED. THE CR.			HAT GO AGAINST THE SPAR C	ARRY THRU.
					CHECKING SPARE WINGS IN	
					RANGE FROM 5087 TO OVER 1	,
					CIRCULAR BRINNELED AREA ESSION OR RADIATE IN OR OU	
			CORROSION IS PRESE		ESSION OR RAIDIATE IN OR OC	JI I KOM IIIL
ISRAEL	GARRTT		HINGE	CRACKED	01/29/2003	4550
1124	TFE731*	AD 00 12 00 THE LT	453005501	HORIZONTAL	2003021900032	MAKED EVE
			OUTBOARD HINGE L SPECTION BUT WERI		CRACK WAS VISUAL TO THE	NAKED EYE,
				L LOADS TRANSMITTED TO	THE HINGE DURING	
ISRAEL	GARRTT		HINGE	CRACKED	01/28/2003	5575
1124	TFE731*	D 00 12 00 THE LT C	453005501	HORIZONTAL	2003021900033	NAKED EVE
					CRACK WAS VISUAL TO THE O THE HINGE DURING THRU	
					ED BY ASSURING THAT THE H	
	CISSORS SYSTEM IS	S INSPECTED EACH			S BUSHING AND PIN WEAR.	
LEAR 35A			MOUNT 2423100002	CRACKED TIP TANK	02/14/2003 2003021900026	5368
	OURING INSPECTIO	ON FOUND A CRACK		MOUNTING FLANGE. REPA		
LEAR	GARRTT	BENDIX	DRIVESHAFT	SHEARED	01/21/2003	
35LEAR	TFE73122B	66082019	15872694	ON	2003021100078	
					D BASE. UPON INSPECTION FOUT FOUND STILL UNSERVICE	
				URRENT LIMITER REPLAC		EABLE, UPON
LEAR	GARRTT		CLIP	BACKED OUT	01/27/2003	1372
45LEAR	TFE7313		C1444881	TE FLAPS	2003021900048	
					ESTIGATION FOUND CIR-CLIF WAS BACKING OUT AND D	
					RE. REPLACED POWER UNIT-	
					GEST INSPECTION FOR CIR-	
INCREASED IN	TERVAL.					
LEAR 60LEAR			SEAT BACK 3034242ABS	BROKEN CABIN	01/21/2003 2003020600105	2410
	RIVED AT REPAIR	STATION WITH DIS			SEAT BACK WAS BROKEN. PI	RELIMINARY
					OR ATTACHMENT OF UPHOL	
					NAUTHORIZED ALTERATION	
			NOT SUPPOSED TO BE JETCORP, CRS DELR		ER LEARJET MODEL 60 SEATS	AND FOUND
LKHEED	WRIGHT	RE DISCOVERED AT	DOUBLER	CORRODED	01/21/2003	9739
P2V7	R3350*		44305	LT & RT WING	2003020500222	
					RS 53L AND 53R. LT AND RT UF	
					D THE SKIN BETWEEN WING S LD TO MODERATE CORROSIO	
				ODERATE CORROSION.	ab 10 Mobelettle coldrosio	IV. ET TINE KI
LKHEED	WRIGHT		SPAR CAP	CORRODED	01/21/2003	9739
P2V7	R3350*	ANEL CUT OUT DOLL	DI ED IS CD ACKED AT	LT & RT WING	2003020500223 RS 53L AND 53R. LT AND RT UF	DED CENTED
					D THE SKIN BETWEEN WING S	
					LD TO MODERATE CORROSIO	
		ING STATION 84. 5 T		IODERATE CORROSION.		
MOONEY M20C	LYC O360A1D		ADAPTER 43122	CORRODED FUEL CAP	12/03/2002 2003020100018	
		TION CORROSION W			HE FUEL FILLER CAP WHERE	THE O-RING
` '		NG THE FUEL TANK		J. L.		3 11110
MOONEY	LYC		PIVOT ASSY	SEIZED	07/18/2002	
M20M	TIO540AF1A	FO EVTEND LIBONE	52002503	LT MLG	2003020400063 IVOT POINT BETWEEN THE S	поск стріт
					EMLG LEG TO RETRACT IMPR	
					THE BEARING SURFACE. LUB	
		VELY IMPOSSIBLE.		ED IN A GEAR UP LANDING		
MUDRY CAP10B	LYC AEIO360B2F		WING 5702010404800	FAULTY WING, PLATES/SKI	01/14/2003 2003021100065	
		RWARD EDGE BIND			SUSPECT MANUFACTURING	ERROR.
PAC	CONT	CONT	CONTROL	JAMMED	01/06/2003	
CT4B	IO360HB	IO360HB	07401061	RECIPROCATING	2003021100058	120
					ROUND CHECK FOUND THE JG A1/4IN UNC SCREW WITH	
•					/MAINTENANCE ERROR. FOI	
PILATS	PWA		WIRE		01/17/2003	
PC1245	PT6A67B			WIRE	2003021100077	
	PEDLACING L H AT				NG TRAY. WIRE # L52N-22 W	
		DRUBI EWG TO THE	CANDING HAD I SWG	BEEN REPORTED WIDE W.	Z S BEDYIBED AND I COM DEG	SECTIOED
HAVE CHAFFE	D THROUGH. NO P	PROBLEMS TO THE O		BEEN REPORTED WIRE WA CRACKED		SECURED.
		PROBLEMS TO THE O	GPWS LIGHTING HAD BRAKE DISC 23203500	BEEN REPORTED WIRE WA CRACKED MLG	AS REPAIRED AND LOOM RES 01/03/2003 2003021300058	SECURED.
HAVE CHAFFE PILATS PC1245 (CAN) DUE TO F	D THROUGH. NO P PWA PT6A67B PREVIOUS BRAKEI	FAILURES WE NOW I	BRAKE DISC 23203500 DISASSEMBLED AND	CRACKED MLG INSPECT THE BRAKE ASSY.	01/03/2003 2003021300058 AT 900 HRS. ON INSPECTION C	OF THIS ASSY.
HAVE CHAFFE PILATS PC1245 (CAN) DUE TO F WE FOUND THI	D THROUGH. NO P PWA PT6A67B PREVIOUS BRAKEI	FAILURES WE NOW I ISK CRACKED IN 2 P	BRAKE DISC 23203500 DISASSEMBLED AND	CRACKED MLG INSPECT THE BRAKE ASSY.	01/03/2003 2003021300058	OF THIS ASSY.

PILATS	PWA	PRESSURE	INTERMITTENT	01/16/2003	
PC1245	PT6A67B	9738114306	MLG	2003021400006	W GE 1 B 1 1 W
	EPORTED GEAR WOULD NOT LOCK WE				
	ORKED AND LANDING WAS UNEVENTI PRESSURE SWITCH CANNON PLUG WAS C				
,	TER STAINS WERE OBSERVED IN THE H				
	OMMENDED BY AIRCRAFT MANUFACTU				KEZITED WIII
PILATS	PWA	PDU	FAILED	01/26/2003	
PC1245	PT6A67B	952D1005	TE FLAPS	2003021400117	
	AILED TO EXTEND ON APPROACH INT		ND FLAP SYSTEM INSPECTE	D, FLAP POWER DRIVE	UNIT FOUND
	D1005. UNIT REPLACED AND FLAP O SI		PROZENI	01/01/0000	
PILATS PC1245	PWA PT6A67B	ACTUATOR 9787320307	FROZEN TE FLAPS	01/21/2003 2003021400118	
	OACH, FLAPS WERE SELECTED AND C				D AGAIN C/E
	. UPON INVESTIGATION IT WAS FOUND				
	VORKED PROPERLY. ACTUATORS WER				
ГНЕМ.					
PIPER	LYC	STRUCTURE	CRACKED	08/01/2002	
PA18	O320A2B	1279004	ELEVATOR	2003020100143	
(CAN) LI STABI PIPER	ILIZER REAR TUBE WAS FOUND CRACK LYC	LINK	BROKEN	E. 12/27/2002	4298
PA23160	O360A1D	16667000	NLG	2003020400121	4290
	ED HEARING A BANG WHEN GEAR RE				NDING, NOSE
GEARDOWN AN	ND LOCKED WITH GREEN LIGHT. LAND	ED WITHOUT INCIDEN	T. ON INSPECTION, FOUND I	HYDRAULIC ACTUATOR	CONNECTOR
	IN HALF WHICH ALSO RIPPED OPEN BO	OLT HOLES FOR LOCK	ING LINK. REPLACED PART, O	OPS CHECK GOOD. SUSI	PECT FATIGUE
FAILURE.				00/04/000	
PIPER		LINE	FAILED	08/06/2002	2774
PA23250	R HYDRAULIC FLUID HARD LINE FAILEI	3153601	HYD SYSTEM	2003020400229	O DE DI IMPER
	IGHT MLG AND NLG FAILED TO DOWN A				
	LG UNLOCKED. VERY HARD TO INSPEC				
HIGH PRESSUR	E HYDRAULIC HOSE INSTALLED IN THI	S POSITION AND MAN	NDATORY REPLACEMENT EV	ERY TEN YEARS.	
PIPER	LYC LYC	HOUSING	CRACKED	12/15/2002	
PA23250	IO540C4B5 IO540C4B5	77852	RECIPROCATING	2003021100051	405
	OIL FILTER HOUSING CRACKED FROM E		-		
PIPER PA28R200	LYC IO360C1C	TRUNNION 6705403	CRACKED NLG	01/20/2002 2003020100141	
	ANNUAL INSPECTION, NOSE GEAR TRU				
PIPER	LYC	SQUATSWITCH	FAILED	01/09/2003	194
PA28R201	IO360A1A	761639	MLG	2003020400095	
	AFT TO VERIFY SQUAT SWITCH ADJUST				
	ESSION FROM FULL EXTENSION. FOUND				
OF LIMITS. THE PIPER	TORQUE SEAL ON THE SQUAT SWITCH LYC	CRANKCASE	CRACKED	12/20/2002	STURBED.
PA31	TIO540A2C	CIGITARCHSE	RT ENGINE	2003020100149	
(CAN) WHILE C	ONDUCTING A DAILY INSPECTION, IT	WAS NOTED THAT TI	HE RT ENGINE NACELLE WA	S FULL OF OIL. WITH T	THE COWLING
REMOVED AN I	NSPECTION OF THE ENGINE WAS CARRIE	EDOUT. A CRACK WAS	FOUND ON THE RIGHT SIDE O	FTHE CRANKCASE AT T	HEFORWARD
	WER FORWARD STUD (FORWARD OF CY	,			
PIPER	LYC	GOVERNOR	MALFUNCTIONED	06/04/2002	
PA31	TIO540J2B RPM HUNTING ON RT ENGINE AT CLIME	H210800	PROPELLER	2003020100037	VOLUED MOVE
, ,	DING GOVERNOR OUT FOR REPAIR.	OUT POWER. PROP G	OVERNORS WERE SWITCHED) TO SEE IF PROBLEM V	VOULD MOVE.
PIPER	PWA	BULKHEAD	CRACKED	01/02/2003	17198
PA31T	PT6A28	4521504	FUSELAGE	2003020400148	1,1,0
(CAN) DURING	SCHEDULED MAINTENANCE DISCOVE	RED FLEXING UNDER		ACH BRACKET WHEN (DPENING AND
	ABIN DOOR. INSPECTION REVEALED CF	RACKING IN BULKHEA	AD AND SKIN AT FS 215 REPAII	RS CARRIED OUT IAW R	EPAIR DESIGN
CERTIFICATE C					
PIPER	CONT	LINE	CORRODED	12/24/2002	
PA34200T	TSIO360E A GROUND RUN FOR CALIBRATION OF A	3716742 N LINREL ATED SYSTE	HEATER FUEL	2003020100003 A STRONG EUEL SMELL	IN THE CARIN
	AS FOUND TO BE A CORRODED HEATE				
6WAS SOAKED		022 211 211 111 11	0.11		OLI DLIII
PIPER	PWA	SHAFT	SHEARED	01/23/2003	
PA46500TP	PT6A42		PROP GOVERNOR	2003021400025	
	NE START UP, THE PROPELLER WOULD	NOT COME OUT OF I	FEATHER. INSPECTION REVE	ALED A SHEARED CON	STANT SPEED
	OVERNOR SHAFT.	CD 13W/C1CE	CD + CV/FD	01/00/2002	0021
PIPER	LYC	CRANKCASE	CRACKED	01/09/2003	9831
PA60602P ON 28 DEC 2002	TIO540U2A , AEROSTAR N6902T LANDED AT OAJ W	/ITH NR 2 (RT) ENGIN	ENGINE F SHUTDOWN AND PROPELL	2003020500139 FRS FEATHERED, THE I	455 PII OT STATED
	FLIGHT, HE NOTICED A DROP IN OIL PRI				
	DICATIONS WERE NORMAL. UPON EX				
	RWARD TO BELOW THE NR 3 CYLINDER				
	THE POINT WHERE THE LOWER MOU			DER STILL ATTACHED	TO THE CASE
	AAGE IS EXPECTED TO BE FOUND, BUT			02/10/2002	
RAYTHN		BEARING	FAILED STARTER CEN	02/18/2003	605
HAWKER800 STARTER-GENE	ERATOR REAR BEARING FAILED. (A) STA	ARTER-GENERATOR S	STARTER GEN INCE OVERHAUL: 695-9 HOU	2003021900110 RS	695
RAYTHN	GARRTT	BEARING	FAILED	02/05/2003	
HAWKER800	TFE731*		STARTER GEN	2003021900111	695
	ERATOR REAR BEARING FAILED. (A) STA	ARTER-GENERATOR S			
	. / -				

RAYTHN LINE MISROUTED 02/17/2003 HAWKER800XP 2003021900022 BRAKE SYS DURING INSPECTION OF MLG (LT AND RT) DISCOVERED BRAKE LINES ROUTED INCORRECTLY CAUSING ONE BRAKE LINE TO CHAFE ON THE MAIN TIRE. SHOULD BE ROUTED IAW MAINTENANCE MANUAL 32-40-00-001. CHAFED LINES WERE 02/17/2003 CHAFED 2003021900023 DURING INSPECTION WITH TAIL CONE REMOVED DISCOVERED ELT WIRING HARNESS CHAFING HARD ON AFT SIDE OF NR 2 MAIN OXYGEN BOTTLE INOPERATIVE RKWELL ALIDSG SWITCH 01/23/2003 5320 NA26565 TFE7313AR 4014305 STABTRIM 2003020600110 PILOT'S TRIM SWITCH BECAME INTERMITTENT AND THEN FAILED TO OPERATE COMPLETELY IN FLIGHT. CO-PILOT AND ALTERNATE TRIM SYSTEMS BOTH REMAINED FUNCTIONAL. TESTED AND REPLACED PILOT'S TRIM SWITCH AT DESTINATION. SYSTEM FUNCTIONED PROPERLY AFTER REPLACEMENT OF SWITCH. SAAB MOTOR FAILED 12/01/2002 SF340A M3348A1 FAN 2003020400223 FAN RETURNED TO MFG FOR OVERHAUL. WHEN FAN WAS TESTED, IT FAILED THE MINIMUM RPM REQUIREMENTS, WHEN IT WAS DISASSEMBLED, IT WAS DISCOVERED THAT THIS OVERHAULED UNIT HAS NOT BEEN OVERHAULED IAW THE MM. THE ARMATURE IS NOT OF DAE DESIGN. OVERHAUL MANUAL DOES NOT ALLOW FOR THE REWINDING OF THE ARMATURE OR THE REPLACEMENT OF PARTS OTHER THAN LISTED. SKRSKY BLADE DAMAGED 01/27/2003 MAIN ROTOR 2003021900179 S64E ONE OF THE TWO TRAILING EDGE STUDS THAT WAS HOLDING THE TIP END WEIGHT PACKAGE FRACTURED (TRAIL EDGE). THE FRACTURE OCCURRED APPROX. 1/4 INCH BELOW THE LOCK RING IN THE BALANCE PLATE ASSY. THIS CAUSED THE LEADING EDGE STUD TO DEFORM, ALLOWING THE WEIGHT PACKAGE TO IMPACT THE TIP CAP. THERE WERE 1. 76 LBS. SECURED ON THE TRAILING EDGE STUD. DEFORMATION WAS NOTICED ON THE TIP CAP WHEN THE AIRCRAFT WAS SHUTDOWN. THE CAP WAS REMOVED FOR REPLACEMENT, EXPOSING DAMAGE TP BOTH STUDS AND THE TIP CAP. THE WEIGHT PACKAGE WAS CONTAINED BY THE TIP CAP. THE FLIGHT CREW REPORTED NO DISTORTED 01/16/2003 SNIAS TMFCA SEAL RING AS350B2 ARRIEL1D1 0292100560 OIL FILTER ASSY 2003020600111 ENGINE OIL PRESSURE LOSS RESULTED FROM DISTORTION OF THE DRAIN VALVE SEALING RING WITHIN THE OIL FILTER ASSEMBLY. INDENTATIONS ON THE SEALING RING CORRESPONDING TO HOLES IN THE FILTER BASE BECAME MISALIGNED DURING FILTER ELEMENT INSPECTION AND FAILED TO PRESENT A FLAT REGISTER TO THE FILTER BASE. THE INDENTATIONS MAY BE ASSOCIATED WITH OVER-TIGHTENING OF THE FILTER BOLT DURING PRIOR MAINTENANCE. THE SEALING RING IS NOT NORMALLY REPLACED DURING OIL FILTER ELEMENT INSPECTION OR SWRNGN GARRTT DEFECTIVE VALVE 01/08/2003 SA226T 191003 LT TE FLAPS 2003020500064 AIRCRAFT ROLLED LT AFTER FLAPS WERE DEPLOYED FOR 30 SECONDS, INTERMITTENTLY, FOUND LT LOCK OUT VALVE DEFECTIVE, VALVE WAS GROUND PRESSURE TESTED AND IT FAILED THE TEST. REPLACED LOCK OUT VALVE. THIS PART NEEDS TO BE PUT ON THE REQUIRED OVERHAUL SCHEDULE. SWRNGN GARRTT GASKET RUPTURED 01/30/2003 TPE33110UA NR 2 ENGINE 2003021900109 SA226TC 8961151 A GASKET RUPTURED BETWEEN THE POWERPLANT AND THE BLEED AIR TUBE. THIS ALLOWED HOT BLEED AIR TO BLOW DIRECTLY ON AN ENGINE FIRE DETECTOR. THE PILOTS, FOLLOWING MFG PROCEDURES, FEATHERED THE ENGINE AND DIVERTED FOR AN UNEVENTFUL LANDING. SWRNGN GARRTT ROTOL. HUB CRACKED 12/14/2002 660709201 SA227AC TPE33111U R321482F8 PROPELLER HUB SE 2003021100056 (AUS) FOLLOWING PILOT REPORTS OF PROPELLER VIBRATION, AN ULTRASONIC EXAMINATION WAS CARRIED OUT ON THE PROPELLER HUB. ONE CRACK LIKE DEFECT WAS DETECTED ADJACENT TO A THREADED INSERT HOLE. THE CRACK WAS LOCATED AT A DEPTH OF 13MM (0.512IN) AND HAD A LENGTH OF APPROXIMATELY 13MM (0. 512IN). UROCOP ACTUATOR LEAKING 01/30/2003 1351 EC135P1 L673M40A1001 TAIL ROTOR 2003020400084 LEAKING AT SPLIT LINE OF TRIANGULAR PLATE ON BOTTOM SIDE OF ACTUATOR. REPLACED WITH SERVICEABLE BLOWN 12/24/2002 ZLIN LYC SEAL AEIO360A1B6 5L13792 CRANKSHAFT 2003020400152 Z242L (CAN) FRONT CRANKSHAFT SEAL BLOWN OUT DUE TO FROZEN ENGINE VENT LINE CANISTER. VENT SYSTEM PURGED AND CLEANED CRANKSHAFT SEAL RESEATED. ENGINE RUN-UP AND OIL FILTERS SERVICEABLE (NO METAL).

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